IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1   1. (Original) An apparatus comprising a receiving device

2   working with space diversity for signals modulated with spreading

3   code coefficients in time and for signals received over at least

4   two channels, the receiving device comprising a mixer circuit and a

5   spreading code demodulation circuit in the form of demodulation

6   branches which have code inputs, characterized in that the mixer

7   circuit shifts the phase of the signals of one of the channels,

8   whereas the code inputs of one of the branches receive the

9   spreading code and the inputs of at least another branch receive

10   the conjugate spreading code.

1   2. (Original) An apparatus as claimed in claim 1,

2   characterized in that the received signals before being mixed are

3   broken down into complex signals and in that the mixer circuit has

4   a mixing input for reversing the imaginary part of one of the

5   received signals.

1   3.(Previously Presented)   An apparatus as claimed in claim 1,

2   characterized in that a combining circuit is provided for combining

3   the signals of the two branches.

1   4.(Previously Presented)   A processing method for signals

2   received over various channels, implemented in a system as claimed

3   in claim 1 and having been subjected to a time diversity via a

4   spreading code formed by code elements which appear in a complex

5   form, characterized in that it comprises the following steps:

6   -   reception of signals over at least two channels,

7   -   mixing of signals of each one of the channels by a local

8   oscillator to reverse the phase of the signals of one of the

9   channels,

10   -   demodulation of the signals by means of a first

11 demodulation branch which operates with said non-conjugate

12 spreading code elements and at least a second demodulation branch

13 operating with said conjugate code elements,

14   -   combining signals supplied by the two branches to

15 reconstruct the thus transmitted data.